



UNION
CARBIDE

FEB 08 1982
MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor "Essentially Similar" to Form LSB-OOS-4)



ETHY
CHEMICAL NAME: BUTYL CELLOSOLVE® ACETATE *KJ8925000*

SYNONYMS: Ethylene Glycol Monobutyl Ether Acetate

CHEMICAL FAMILY: Esters

FORMULA: $\text{CH}_3\text{COOC}_2\text{H}_4\text{OC}_4\text{H}_9$

MOLECULAR WEIGHT: 160.21

TRADE NAME AND SYNONYMS: Butyl CELLOSOLVE Acetate *CAS 11207-2*

I. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	192.3 °C. (378.1 °F.)	FREEZING POINT	-63.5 °C.
SPECIFIC GRAVITY (H ₂ O = 1)	0.9424 at 20/20 °C.	VAPOR PRESSURE AT 20°C.	< 1 mm. Hg
VAPOR DENSITY (air = 1)	5.5	SOLUBILITY IN WATER, % by wt. at 20 °C.	1.5
PER CENT VOLATILES BY VOLUME	Nil	EVAPORATION RATE (Butyl Acetate = 1)	0.03
APPEARANCE AND ODOR	Water-white liquid; characteristic odor.		

II. HAZARDOUS INGREDIENTS

MATERIAL	%	TLV (Units)
Butyl CELLOSOLVE® Acetate		Not established
(See sections III through VIII)		

III. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	165 °F. Closed cup	AUTOIGNITION TEMPERATURE	725 °F.
FLAMMABLE LIMITS IN AIR, % by volume	LOWER	0.5	UPPER 3.7
EXTINGUISHING MEDIA	Carbon dioxide or dry chemical for small fires. Ordinary foam for large fires.		
SPECIAL FIRE FIGHTING PROCEDURES	Water spray can be used but may be ineffective.		
UNUSUAL FIRE AND EXPLOSION HAZARDS	None		

EMERGENCY PHONE NUMBER

304/744-3487

This number is available days, nights, weekends, and holidays.

While Union Carbide Corporation believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Union Carbide Corporation assumes legal responsibility. They are offered solely for your consideration, investigation, and verification.

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IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	Not established
EFFECTS OF OVEREXPOSURE	Harmful vapor concentrations will be so irritating to the eyes, nose, and throat as to be intolerable in a few minutes. May cause transient nausea and headache. Liquid may cause skin irritation.
EMERGENCY AND FIRST AID PROCEDURES	Remove to fresh air, and call a physician if discomfort persists. Flush skin and eye contact with plenty of water.

V. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID	None
UNSTABLE	STABLE		
--	✓		
INCOMPATIBILITY (materials to avoid)		Avoid contamination with strong alkalis.	
HAZARDOUS DECOMPOSITION PRODUCTS		Thermal decomposition or burning may yield carbon monoxide and/or carbon dioxide.	
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID	None
May Occur	Will not Occur		
--	✓		

VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	Flush with large volumes of water.
WASTE DISPOSAL METHOD	Incinerate in a furnace.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)		Air-supplied mask for heavy concentrations.	
VENTILATION	LOCAL EXHAUST	Preferable	SPECIAL --
	MECHANICAL (general)	Acceptable	OTHER --
PROTECTIVE GLOVES		Plastic	EYE PROTECTION Safety glasses
OTHER PROTECTIVE EQUIPMENT		Safety shower and eye bath	

VIII SPECIAL PRECAUTIONS

BUTYL CELLOSOLVE® ACETATE

**WARNING! CAUSES IRRITATION
COMBUSTIBLE**

Avoid contact with eyes, skin, and clothing.
Keep away from heat and open flame.
Keep container closed.
Use with adequate ventilation.
Wash thoroughly after handling.

FIRST AID: In case of contact, immediately flush eyes and skin with plenty of water for at least 15 minutes. For eyes, call a physician. Wash clothing before reuse.

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PRECAUTIONARY LABELING

OTHER HANDLING AND
STORAGE CONDITIONS